

Caterpillars

Fifth Grade Performance Event Scoring Guide

Item#: 1
GLE(s): IN.1.B.5d
Process Standard: 1.3

Key Elements **NEED TO MEASURE CATERPILLARS FOR ACCURACY**

Day 1: 1 cm

Day 2: 2.0 cm

Day 3: 3.0 cm

Day 4: 4.0 cm

Day 5: 5.0 cm

Score Points

2 points 5 correct key elements

1 point 4 correct key elements

0 points Other

Item#: 2
GLE(s): IN.1.E.5a
Process Standard: 1.8

Caterpillar Growth in cm

Average growth	Day1:	Day 2:	Day 3:	Day 4:	Day 5:
In cm.	1.0	2.0	3.0	4.0	5.0

Scoring Points:

2 points 5 correct data entries

1 point 4 correct data entries

0 points Other

Item#: 3
GLE(s): IN.1.B.5e
Process Standard: 1.5

Key Elements

4 cm

Scoring Points:

1 point 1 key element

0 points Other

Item#: 4
GLE(s): IN.1.B.5e
Process Standard: 1.5

Key Elements

4 cm

Scoring Points:

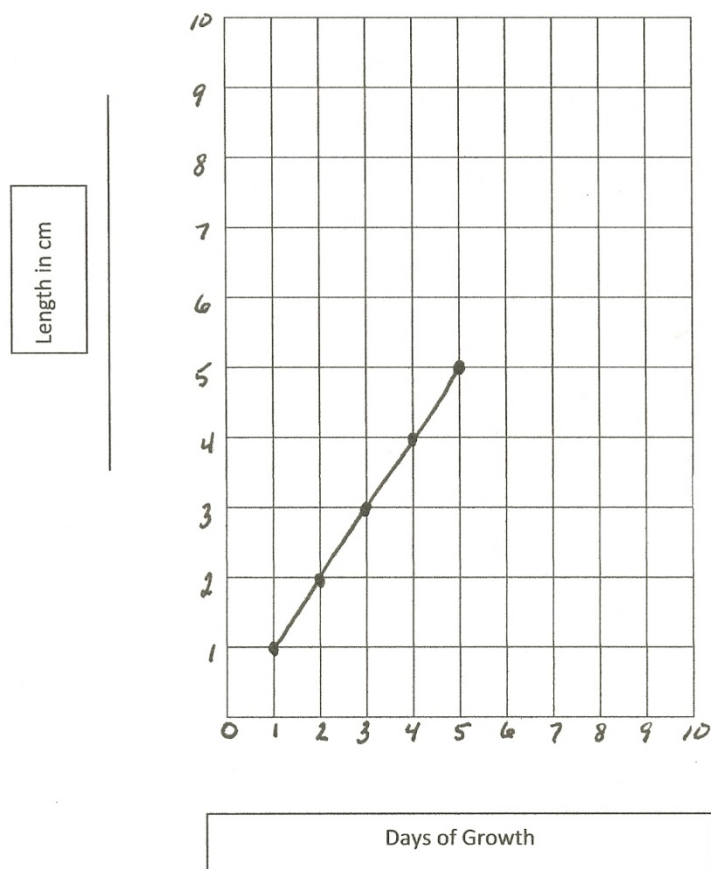
1 point 1 key element

0 points Other

Item#: 5
GLE(s): IN.1.E.5a
Process Standard: 1.8

EXEMPLARY GRAPH:

Caterpillar Growth Each Day



Key Elements

An appropriate number scale labeled along horizontal axis:

- Numbers written on grid lines
 - Numbers that allow all data to be plotted
 - Consistently scaled
-

An appropriate number scale labeled along vertical axis:

- Numbers written on grid lines
 - Numbers that allow all data to be plotted
 - Consistently scaled
 - Point of intersection must be 0
-

At least four points correctly plotted and correctly connected

All five points correctly plotted and correctly connected

NOTE: Accept either the correct response or a response consistent with the student's data table.

NOTE: If student only used data points from the table to number their axes, they will lose both the scaling and the plotting points. Exception to above note: If student only uses data points from the table but scales the axes correctly, student will receive credit for the scaling point.

NOTE: If the vertical axis scale is written between the grid lines, student loses both scaling and plotting points.

NOTE: Student should not be penalized for compressing the interval between zero and the first non-zero number as long as they designate the compression with a broken axis and the rest of the scale intervals are consistent.

Scoring Points:

4 points	4 key elements
3 points	3 key elements
2 points	2 key elements
1 point:	1 correct key elements
0 points	Other

Item#: 6
GLE(s): IN.1.C.5b
Process Standard: 1.6

Key Elements

6 cm

Scoring Points:

1 point 1 key element

0 points Other

Item#: 7
GLE(s): IN.1.A.5b
Process Standard: 1.3

Key Elements

No

- Used a different amount of food
 - Used different kinds of food
 - Or any other response indicating variables weren't controlled
-

Scoring Points:

2 points 2 key elements

1 point 1 key element

0 points Other

Item#: 8
GLE(s): IN.1.B.5e
Process Standard: 1.6

Key Elements

- 15 ° C
-

Scoring Points:

1 point 1 key element

0 points Other

Item#: 9
GLE(s): IN.1.A.5a
Process Standard: 1.3

Key Elements

Any reasonable testable question that

- Identifies what will be tested or measured
 - Will generate quantifiable data
 - Has a control or comparison inherent in the question
-

SCORING NOTE: The independent variable (IV) and dependent variable (DV) must be identified in the question

Scoring Points:

1 point 1 key element

0 points Other

Item#: 10
GLE(s): IN.1.A.5a
Process Standard: 1.3

Key Elements

Any reasonable hypothesis based on the testable question or statement of a problem that predicts an effect, of the independent variable (IV) on the dependent variable (DV).

Exemplary responses take these appropriate forms:

- “If (independent variable, IV) (description of change in independent variable), then (dependent variable, DV) (description of effect)”
 - “As the (independent variable) (description of change), the (dependent variable) (description of change)”
 - “The (qualitative/quantitative change in independent variable) of (independent variable), the (quantitative change in dependent variable)”
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Scoring Points:

1 point 1 key element

0 points Other

Item#: 11
GLE(s): IN.1.A.5c
Process Standard: 1.3

Key Element

- Write a testable question
 - Write a hypothesis
 - Do the experiment
 - Collect, record data
 - Write a conclusion
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Scoring Points:

1 point: 1 key element

0 points: Other